



PCT09

RAW SEQUENCE LISTING

DATE: 04/08/2002

PATENT APPLICATION: US/09/830,026A

TIME: 11:14:12

Input Set : N:\Crf3\04052002\I830026.raw

Output Set: N:\CRF3\04082002\I830026A.raw

1 <110> APPLICANT: University of Kansas Center for Research
 2 Walter Reed Army Institute for Research
 3 <120> TITLE OF INVENTION: METHODS FOR THE PRODUCTION OF PURIFIED INVASIN PROTEIN AND
 USE THEREOF
 4 <130> FILE REFERENCE: UOK 5320.1
 5 <140> CURRENT APPLICATION NUMBER: US/09/830,026A
 6 <141> CURRENT FILING DATE: 2001-04-02
 7 <150> PRIOR APPLICATION NUMBER: PCT/US99/24931
 8 <151> PRIOR FILING DATE: 1999-10-21
 9 <160> NUMBER OF SEQ ID NOS: 17
 10 <170> SOFTWARE: PatentIn version 3.0
 12 <210> SEQ ID NO: 1
 13 <211> LENGTH: 409
 14 <212> TYPE: PRT
 15 <213> ORGANISM: Salmonella typhimurium
 16 <400> SEQUENCE: 1
 17 Met Leu Ile Ser Asn Val Gly Ile Asn Pro Ala Ala Tyr Leu Asn Asn
 18 1 5 10 15
 19 His Ser Val Glu Asn Ser Ser Gln Thr Ala Ser Gln Ser Val Ser Ala
 20 20 25 30
 21 Lys Asp Ile Leu Asn Ser Ile Gly Ile Ser Ser Ser Lys Val Ser Asp
 22 35 40 45
 23 Leu Gly Leu Ser Pro Thr Leu Ser Ala Pro Ala Pro Gly Val Leu Thr
 24 50 55 60
 25 Gln Thr Pro Gly Thr Ile Thr Ser Ser Leu Lys Ala Ser Ile Gln Asn
 26 65 70 75 80
 27 Thr Asp Met Asn Gln Asp Leu Asn Ala Leu Ala Asn Asn Val Thr Thr
 28 85 90 95
 29 Lys Ala Asn Glu Val Val Gln Thr Gln Leu Arg Glu Gln Gln Ala Glu
 30 100 105 110
 31 Val Gly Lys Phe Phe Asp Ile Ser Gly Met Ser Ser Ser Ala Val Ala
 32 115 120 125
 33 Leu Leu Ala Ala Ala Asn Thr Leu Met Leu Thr Leu Asn Gln Ala Asp
 34 130 135 140
 35 Ser Lys Leu Ser Gly Lys Leu Ser Leu Val Ser Phe Asp Ala Ala Lys
 36 145 150 155 160
 37 Thr Thr Ala Ser Ser Met Met Arg Glu Gly Met Asn Ala Leu Ser Gly
 38 165 170 175
 39 Ser Ile Ser Gln Ser Ala Leu Gln Leu Gly Ile Thr Gly Val Gly Ala
 40 180 185 190
 41 Lys Leu Glu Tyr Lys Gly Leu Gln Asn Glu Arg Gly Ala Leu Lys His
 42 195 200 205
 43 Asn Ala Ala Lys Ile Asp Lys Leu Thr Thr Glu Ser His Ser Ile Lys
 44 210 215 220

ENTERED

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95      Ala Ala Glu Asn Ile Val Arg Gln Gly Leu Ala Ala Leu Ser Ser Ser
96                165                170                175
97      Ile Thr Gly Ala Val Thr Gln Val Gly Ile Thr Gly Ile Gly Ala Lys
98                180                185                190
99      Lys Thr His Ser Gly Ile Ser Asp Gln Lys Gly Ala Leu Arg Lys Asn
100                195                200                205
101      Leu Ala Thr Ala Gln Ser Leu Glu Lys Glu Leu Ala Gly Ser Lys Leu
102                210                215                220
103      Gly Leu Asn Lys Gln Ile Asp Thr Asn Ile Thr Ser Pro Gln Thr Asn
104                225                230                235                240
105      Ser Ser Thr Lys Phe Leu Gly Lys Asn Lys Leu Ala Pro Asp Asn Ile
106                245                250                255
107      Ser Leu Ser Thr Glu His Lys Thr Ser Leu Ser Ser Pro Asp Ile Ser
108                260                265                270
109      Leu Gln Asp Lys Ile Asp Thr Gln Arg Arg Thr Tyr Glu Leu Asn Thr
110                275                280                285
111      Leu Ser Ala Gln Gln Lys Gln Asn Ile Gly Arg Ala Thr Met Glu Thr
112                290                295                300
113      Ser Ala Val Ala Gly Asn Ile Ser Thr Ser Gly Gly Arg Tyr Ala Ser
114                305                310                315                320
115      Ala Leu Glu Glu Glu Glu Gln Leu Ile Ser Gln Ala Ser Ser Lys Gln
116                325                330                335
117      Ala Glu Glu Ala Ser Gln Val Ser Lys Glu Ala Ser Gln Ala Thr Asn
118                340                345                350
119      Gln Leu Ile Gln Lys Leu Leu Asn Ile Ile Asp Ser Ile Asn Gln Ser
120                355                360                365
121      Lys Asn Ser Ala Ala Ser Gln Ile Ala Gly Asn Ile Arg Ala
122                370                375                380
124 <210> SEQ ID NO: 3
125 <211> LENGTH: 4
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: (1)..(4)
131 <223> OTHER INFORMATION: NdeI restriction site
132 <400> SEQUENCE: 3
133      gaga
135 <210> SEQ ID NO: 4
136 <211> LENGTH: 29
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <222> LOCATION: (1)..(29)
142 <223> OTHER INFORMATION: PCR Primer
143 <400> SEQUENCE: 4
144      gagacatatg ttatcagagc aggttcagc
146 <210> SEQ ID NO: 5

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Input Set : N:\Crf3\04052002\I830026.raw

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 151 <221> NAME/KEY: misc_feature
 152 <222> LOCATION: (1)..(30)
 153 <223> OTHER INFORMATION: PCR Primer
 154 <400> SEQUENCE: 5
 155 gagaggatcc ttaagctcga atgttaccag 30
 157 <210> SEQ ID NO: 6
 158 <211> LENGTH: 27
 159 <212> TYPE: DNA
 160 <213> ORGANISM: Artificial Sequence
 161 <220> FEATURE:
 162 <221> NAME/KEY: misc_feature
 163 <222> LOCATION: (1)..(27)
 164 <223> OTHER INFORMATION: PCR Primer
 165 <400> SEQUENCE: 6
 166 gagacatatg ttgcaaaagc aatttgc 27
 168 <210> SEQ ID NO: 7
 169 <211> LENGTH: 32
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 171 <213> ORGANISM: Artificial Sequence
 172 <220> FEATURE:
 173 <221> NAME/KEY: misc_feature
 174 <222> LOCATION: (1)..(32)
 175 <223> OTHER INFORMATION: PCR Primer
 176 <400> SEQUENCE: 7
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 179 <210> SEQ ID NO: 8
 180 <211> LENGTH: 29
 181 <212> TYPE: DNA
 182 <213> ORGANISM: Artificial Sequence
 183 <220> FEATURE:
 184 <221> NAME/KEY: misc_feature
 185 <222> LOCATION: (1)..(29)
 186 <223> OTHER INFORMATION: PCR Primer
 187 <400> SEQUENCE: 8
 188 gagacatatg ttatcagagc aggttcagc 29
 190 <210> SEQ ID NO: 9
 191 <211> LENGTH: 32
 192 <212> TYPE: DNA
 193 <213> ORGANISM: Artificial Sequence
 194 <220> FEATURE:
 195 <221> NAME/KEY: misc_feature
 196 <222> LOCATION: (1)..(32)
 197 <223> OTHER INFORMATION: PCR Primer
 198 <400> SEQUENCE: 9
 199 gagaggatcc ttaggtgtca attttatcct gc 32

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TOGETHER: 102001

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203 <212> TYPE: DNA
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205 <220> FEATURE:
206 <221> NAME/KEY: misc_feature
207 <222> LOCATION: (1)..(22)
208 <223> OTHER INFORMATION: PCR Primer
209 <400> SEQUENCE: 10
210     gagacatatg ttgcaaaagc aa                                22
212 <210> SEQ ID NO: 11
213 <211> LENGTH: 29
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (1)..(29)
219 <223> OTHER INFORMATION: PCR Primer
220 <400> SEQUENCE: 11
221     gagactcgag atgcgttttt ttggcaccg                                29
223 <210> SEQ ID NO: 12
224 <211> LENGTH: 29
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <221> NAME/KEY: misc_feature
229 <222> LOCATION: (1)..(29)
230 <223> OTHER INFORMATION: PCR Primer
231 <400> SEQUENCE: 12
232     gagactcgag acccagagaa gaacttacg                                29
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235 <211> LENGTH: 30
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <221> NAME/KEY: misc_feature
240 <222> LOCATION: (1)..(30)
241 <223> OTHER INFORMATION: PCR Primer
242 <400> SEQUENCE: 13
243     gagaggatcc ttaagctcga atgttaccag                                30
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246 <211> LENGTH: 27
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (1)..(27)
252 <223> OTHER INFORMATION: PCR Primer
253 <400> SEQUENCE: 14

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VERIFICATION SUMMARY

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Output Set: N:\CRF3\04082002\I830026A.raw

L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date

09830026-102001